

International Scientific and Practical Conference on Water Resources in Central Asia

Session 5 Water & Energy

Chairs

Farkhod Aminjonov; Michael Doering

Almaty November 3, 2017



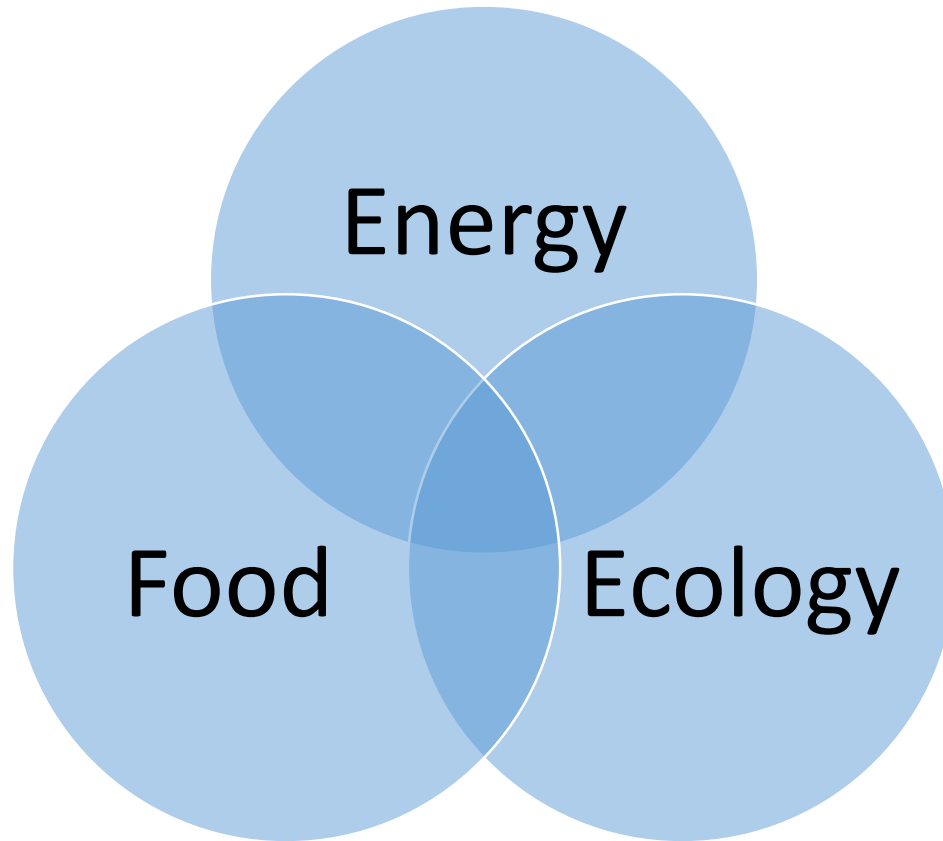
Zurich University
of Applied Sciences



**Life Sciences and
Facility Management**

**Institute of
Natural Resource Sciences**

Session 5: Water and Energy

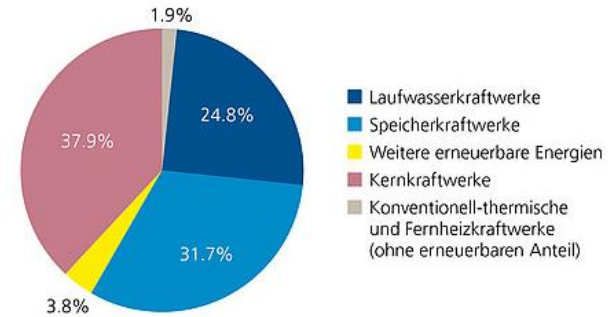


Water and energy are intricately connected

Water and Energy in Switzerland

Energy production Switzerland

- 38 % Nuclear power (4 plants)
- 57 % Hydro power (1352 plants)
- 5 % conventional and renewables



- Exploitation of hydropower since 19th century
- 90% of suitable rivers already used for hydropower

Nuclear power phase out by 2040. How to compensate?

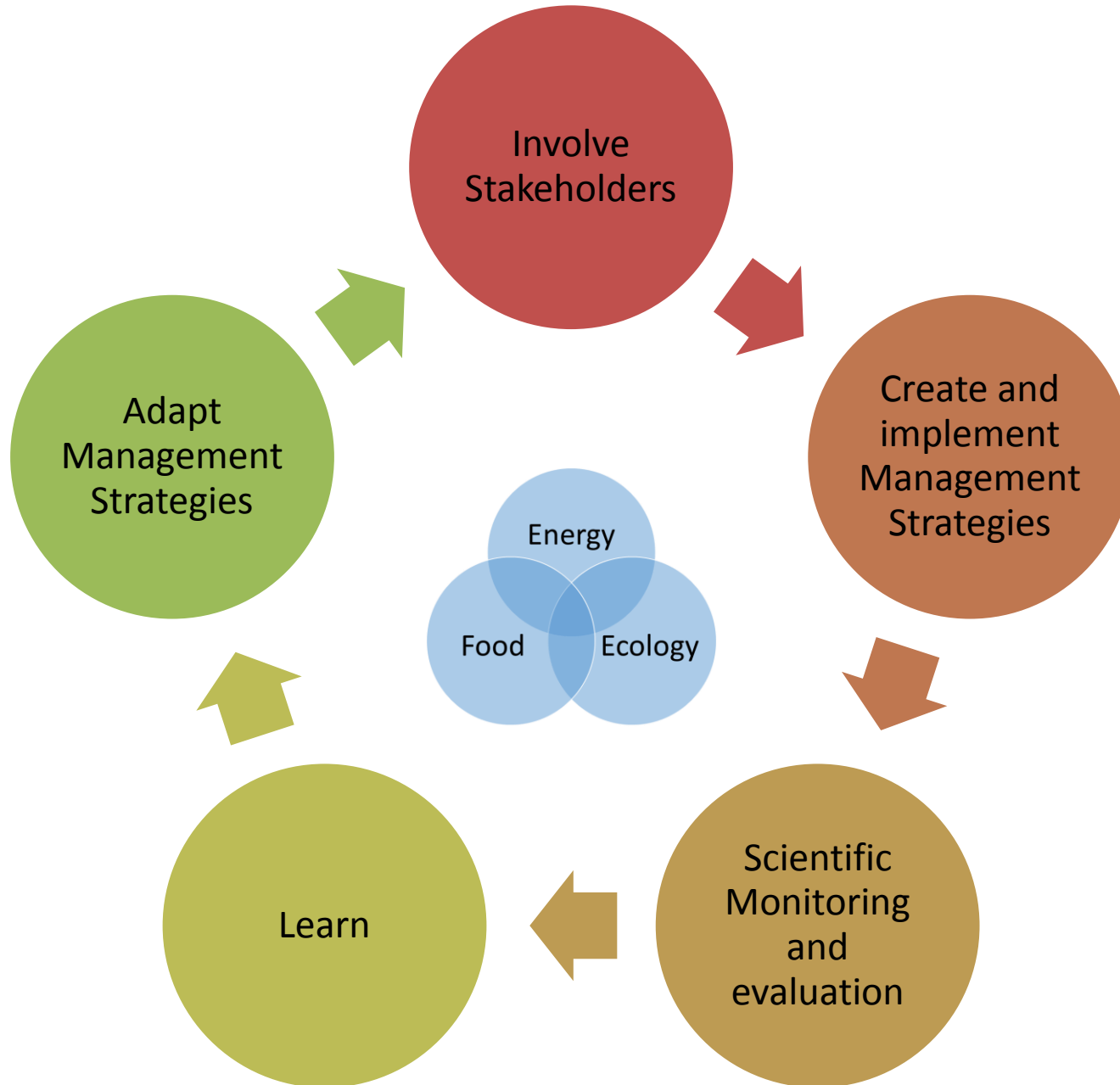
Restoration

- Large restoration of floodplains and rivers (next 80 years) and sustainable hydropower development (next 15 years) is becoming more rigorous and obligatory (River protection act 2011)

Adaptive Management of Water Resources



Adaptive Management



Talks



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Talks (12-15 minutes)

- Diego Tonolla: *Hydropower – Sustainable management of a renewable energy. Worldwide overview and lessons learned in Switzerland*
- Farkhod Aminjonov: *Large hydropower in Central Asia: Structural disagreement*
- Georgy Petrov: *Joint management of water-energy resources in Central Asia*
- Tulegen Sarsembekov: *Prospects and challenges for small hydropower development in Central Asia*
- Abdikaiym Zhiyenbek: *Water resources management: Environmental impact assessment and optimization*

Commentator

Nassipkul Dyussembekova